

FIG. 1

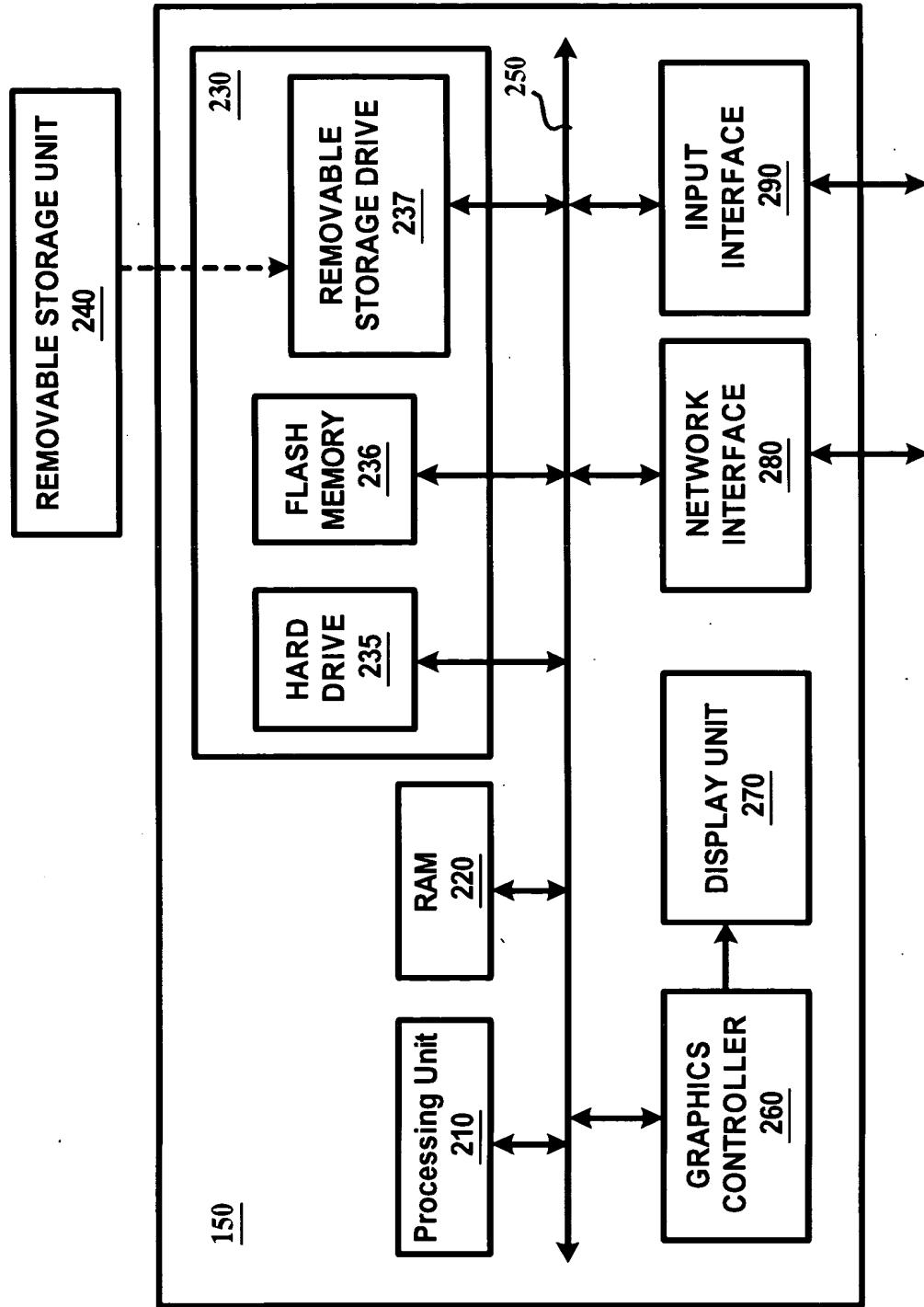


FIG. 2

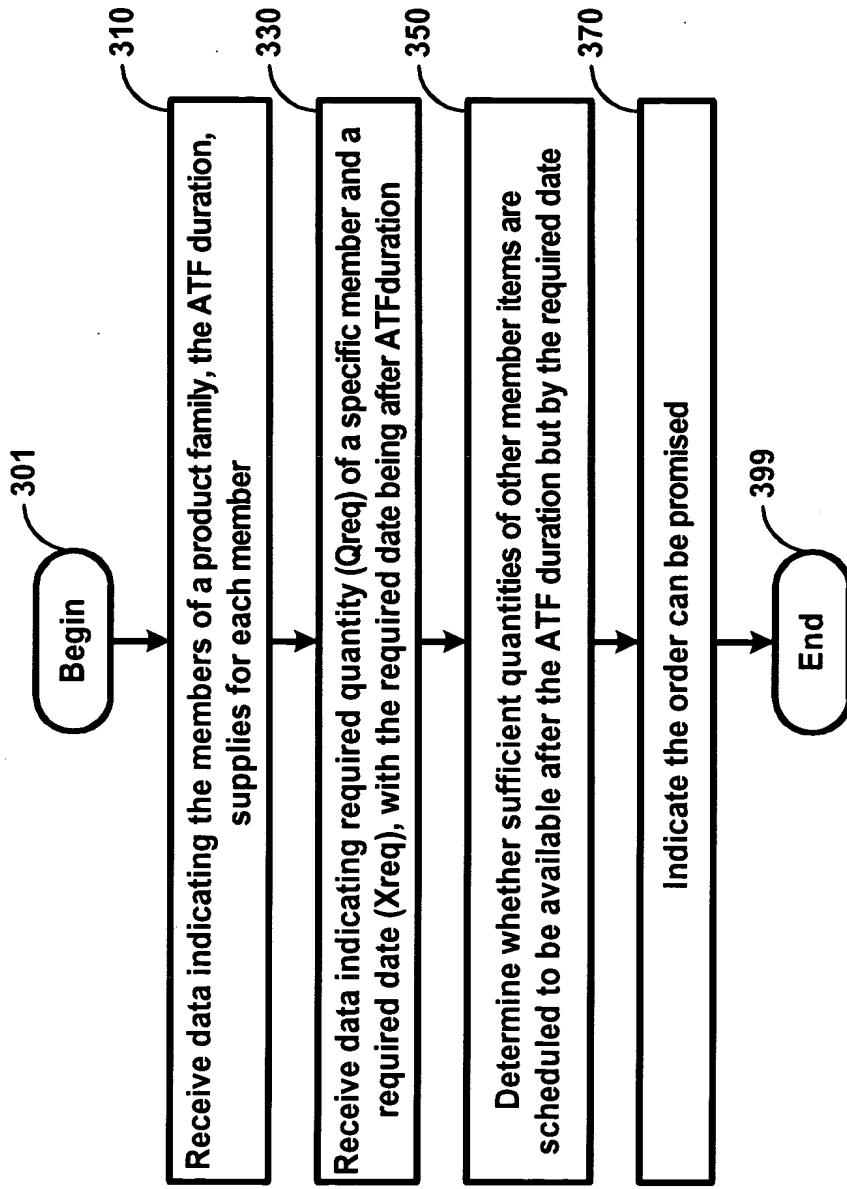
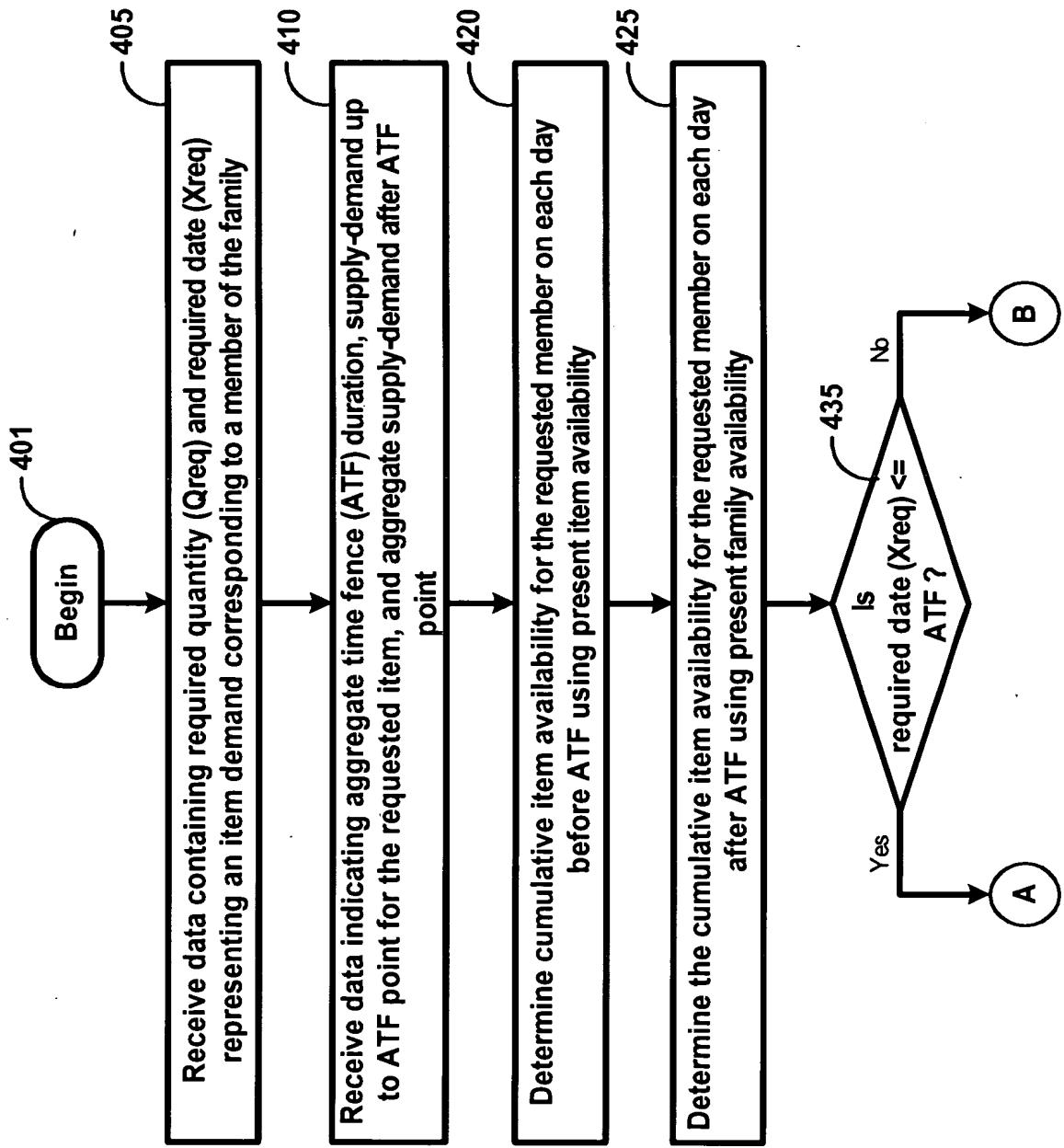


FIG. 3



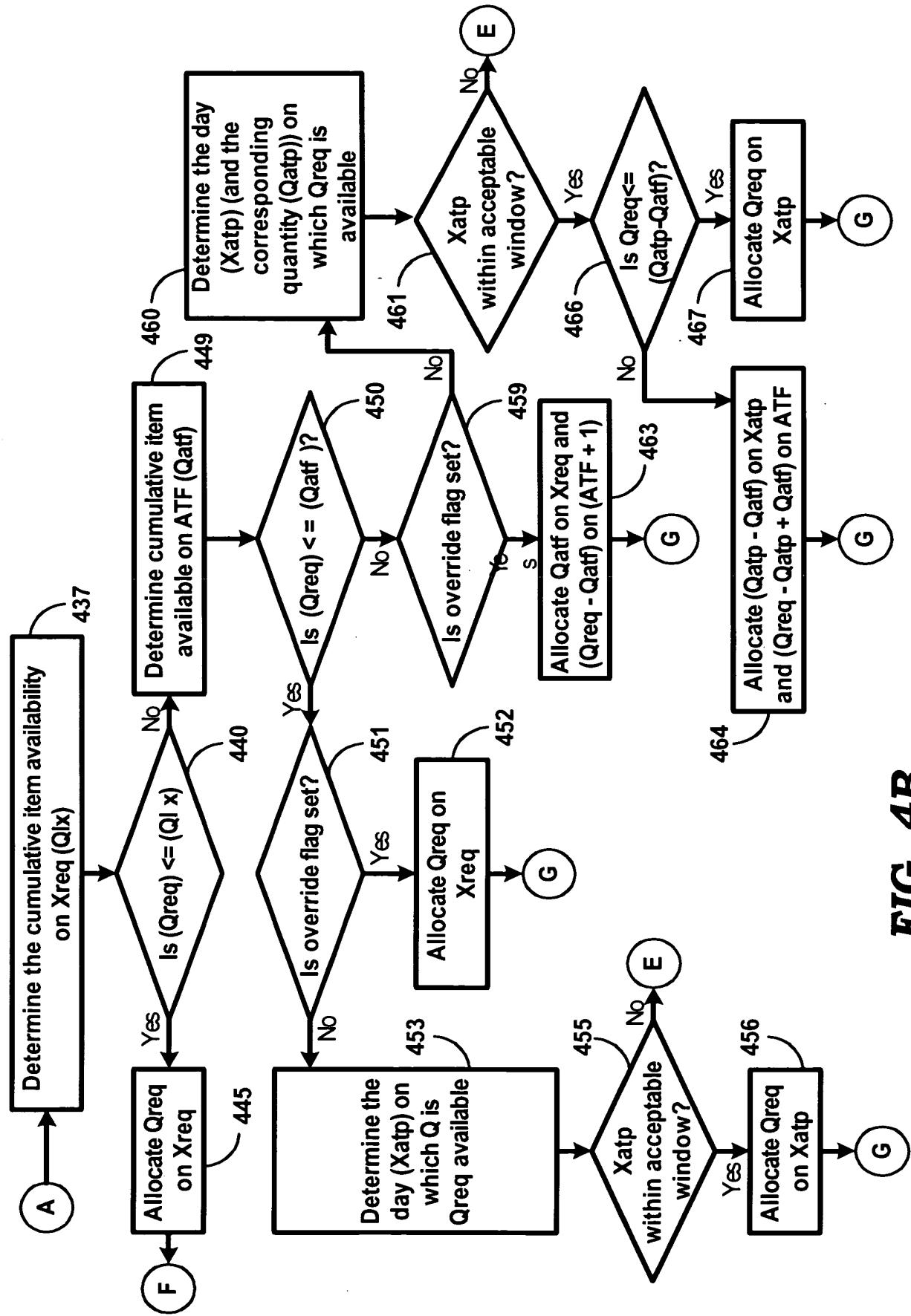


FIG. 4B

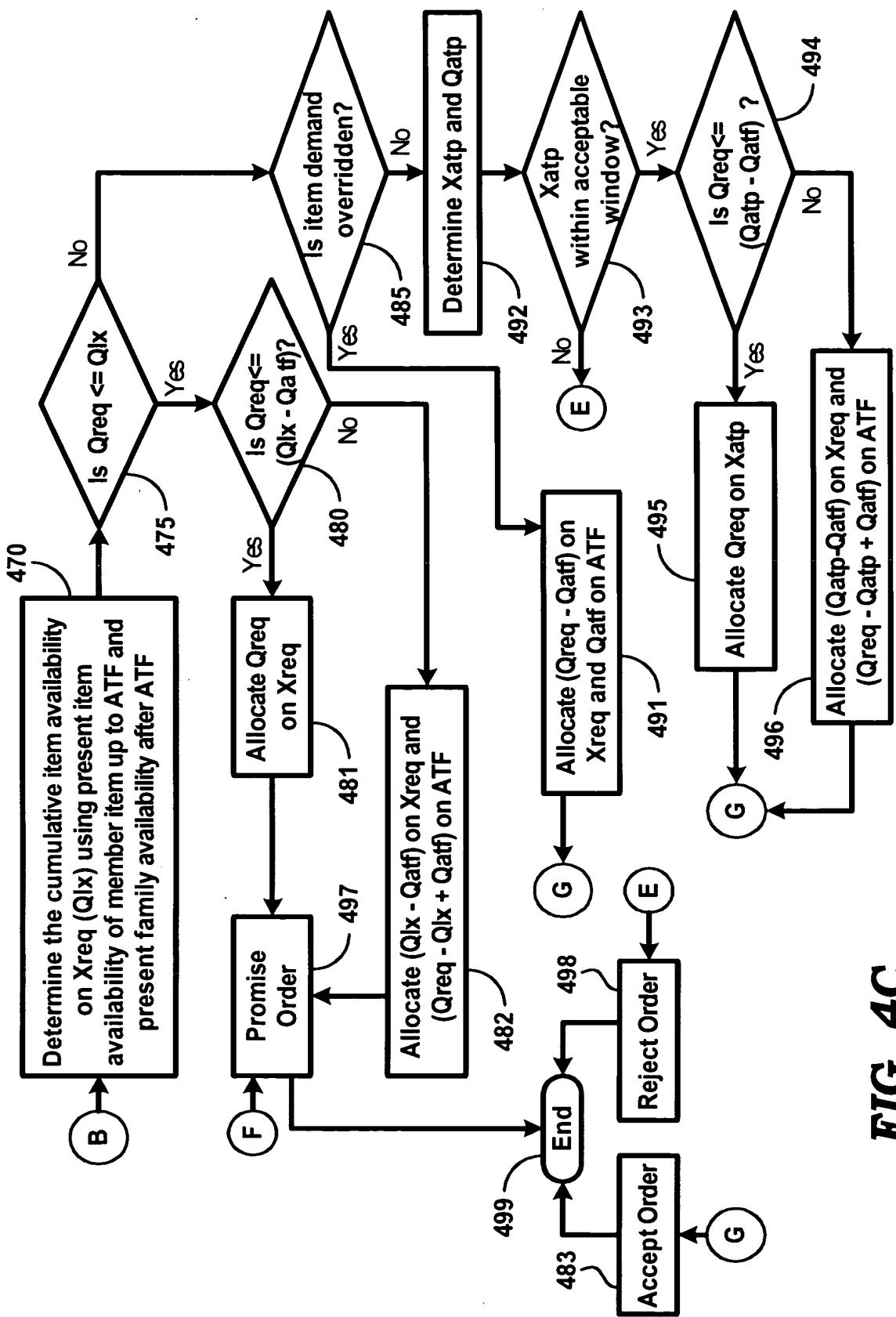


FIG. 4C

		500							
		565							
		560							
		559							
		558							
		557							
		556							
		555							
		554							
		553							
		552							
		551							
Items		Day1	Day2	Day3	Day4	Day5	Day6	Day7	Day8
Family Supply		20	20	20	20	20	20	20	20
Family Bucketed allocation						0	0	0	0
Net Family Available						20	20	20	20
Family						0	0	0	0
Backward Consumption						20	20	20	20
Net + B/W						20	20	20	20
Forward Consumption						0	0	0	0
Present family availability						20	20	20	20
Item Supply -A		10	10	10	10	10	10	10	10
Item-A demand		0	0	0	0	0	0	0	0
Item-A Bucketed Allocation		0	0	0	0	0	0	0	0
Net Item-A Available		10	10	10	10	10	10	10	10
Member-A									
Backward Consumption		0	0	0	0	0	0	0	0
Net + B/W		10	10	10	10	10	10	10	10
Forward Consumption		0	0	0	0	0	0	0	0
Present Item-A availability		10	10	10	10	10	10	10	10
Cumulative Item-A availability		10	20	30	40	50	70	90	110
Item Supply -B		10	10	10	10	10	10	10	10
Item-B demand		0	0	0	0	0	0	0	0
Item-B Bucketed Allocation		0	0	0	0	0	0	0	0
Net Item-B Available		10	10	10	10	10	10	10	10
Member-B									
Backward Consumption		0	0	0	0	0	0	0	0
Net + B/W		10	10	10	10	10	10	10	10
Forward Consumption		0	0	0	0	0	0	0	0
Present Item-B availability		10	10	10	10	10	10	10	10
Cumulative Item-B availability		10	20	30	40	50	70	90	110

FIG. 5

Items

		Day1	Day2	Day3	Day4	Day5	Day6	Day7	Day8
Family	Family Supply	20	20	20	20	20	20	20	20
	Family Bucketed allocation					0	0	0	0
	Net Family Available					20	20	20	20
	Backward Consumption				0	0	0	0	0
	Net + B/W					20	20	20	20
	Forward Consumption					0	0	0	0
	Present family availability					20	20	20	20
	Item Supply-A	10	10	10	10	10	10	10	10
	Item-A demand	0	0	30	0	0	0	0	0
	Item-A Bucketed Allocation	0	0	30	0	0	0	0	0
Member-A	Net Item-A Available	10	10	-20	10	10	10	10	10
	Backward Consumption	-10	-10	+20	0	0	0	0	0
	Net + B/W	0	0	0	10	10	10	10	10
	Forward Consumption	0	0	0	0	0	0	0	0
	Present Item-A availability	0	0	0	10	10	10	10	10
	Cumulative Item-A availability	0	0	0	10	20	40	60	80
	Item Supply -B	10	10	10	10	10	10	10	10
	Item-B demand	0	0	0	0	0	0	0	0
	Item-B Bucketed Allocation	0	0	0	0	0	0	0	0
	Net Item-B Available	10	10	10	10	10	10	10	10
Member-B	Backward Consumption	0	0	0	0	0	0	0	0
	Net + B/W	10	10	10	10	10	10	10	10
	Forward Consumption	0	0	0	0	0	0	0	0
	Present Item-B availability	10	10	10	10	10	10	10	10
	Cumulative Item-B availability	10	20	30	40	50	70	90	110

FIG. 6A

The diagram illustrates a timeline from Day 1 to Day 8, with a total duration of 650 days. The timeline is divided into two main sections: Family (Days 1-7) and Member-A (Days 1-7), and Member-B (Days 1-3).

Items	Day1	Day2	Day3	Day4	Day5	Day6	Day7	Day8
Family								
Family Supply	20	20	20	20	20	20	20	20
Family Bucketed allocation					0	0	0	0
Net Family Available					20	20	20	20
Backward Consumption				0	0	0	0	0
Net + B/W					20	20	20	20
Forward Consumption					0	0	0	0
Present family availability					20	20	20	20
Member-A								
Item Supply -A	10	10	10	10	10	10	10	10
Item-A demand	0	0	30	0	0	0	0	0
Item-A Bucketed Allocation	0	0	30	0	0	0	0	0
Net Item-A Available	10	10	-20	10	10	10	10	10
Backward Consumption	-10	-10	+20	0	0	0	0	0
Net + B/W	0	0	0	10	10	10	10	10
Forward Consumption	0	0	0	0	0	0	0	0
Present Item-A availability	0	0	0	10	10	10	10	10
Cumulative Item-A availability	0	0	0	10	20	40	60	80
Member-B								
Item Supply -B	10	10	10	10	10	10	10	10
Item-B demand	0	20	0	0	0	0	0	0
Item-B Bucketed Allocation	0	20	0	0	0	0	0	0
Net Item-B Available	10	-10	10	10	10	10	10	10
Backward Consumption	-10	+10	0	0	0	0	0	0
Net + B/W	0	0	10	10	10	10	10	10
Forward Consumption	0	0	0	0	0	0	0	0
Present Item-B availability	0	0	10	10	10	10	10	10
Cumulative Item-B availability	0	0	10	20	30	50	70	90

FIG. 6B

Items		Day1	Day2	Day3	Day4	Day5	Day6	Day7	Day8
Family	Family Supply	20	20	20	20	20	20	20	20
	Family Bucketed allocation					0	40	0	771
	Net Family Available					20	-20	20	772
	Backward Consumption					-20	+20	0	773
	Net + B/W					0	0	20	774
	Forward Consumption					0	0	0	775
	Present family availability					0	0	0	776
	Item Supply -A	10	10	10	10	10	10	10	780
	Item-A demand	0	0	30	0	0	0	50	781
	Item-A Bucketed Allocation	0	0	30	0	10			782
	Net Item-A Available	10	10	-20	10	0			783
Member-A	Backward Consumption	-10	-10	+20	0	0			784
	Net + B/W	0	0	0	10	0			785
	Forward Consumption	0	0	0	0	0			786
	Present Item-A Availability	0	0	0	10	0			788
	Cumulative Item-A Availability	0	0	0	10	10	10	10	789
	Item Supply -B	10	10	10	10	10	10	10	790
	Item-B demand	0	20	0	0	0	0	0	791
	Item-B Bucketed Allocation	0	20	0	0	0	0	0	792
	Net Item-B Available	10	-10	10	10	10	10	10	793
Member-B	Backward Consumption	-10	+10	0	0	0	0	0	794
	Net + B/W	0	0	10	10	10	10	10	795
	Forward Consumption	0	0	0	0	0	0	0	796
	Present Item-B Availability	0	0	10	10	10	10	10	798
	Cumulative Item-B Availability	0	0	10	20	30	30	30	50

FIG. 7

The diagram illustrates a flow process starting at 800, which branches into two main paths: Family and Member-A. The Family path leads to 851, while the Member-A path leads to 852. Both paths then converge into a single Member-B path, ending at 899.

Items	Day1	Day2	Day3	Day4	Day5	Day6	Day7	Day8
Family Supply	20	20	20	20	20	20	20	20
Family Bucketed allocation					0	40	35(15)	871
Net Family Available					20	-20	-15	872
Backward Consumption				-20	+20	0	0	873
Nat + B/W				0	0	0	-15	874
Forward Consumption				0	0	0	+15	875
Present family availability				0	0	0	0	878
Item Supply -A	10	10	10	10	10	10		880
Item-A demand	0	0	30	0	0	0	50	881
Item-A Bucketed Allocation	0	0	30	0	10			882
Net Item-A Available	10	10	-20	10	0			883
Backward Consumption	-10	-10	+20	0	0			884
Nat + B/W	0	0	0	10	0			885
Forward Consumption	0	0	0	0	0			886
Present Item-A availability	0	0	0	10	0			888
Cumulative Item-A availability	0	0	0	10	10	10	10	889
Item Supply -B	10	10	10	10	10	10		890
Item-B demand	0	20	0	0	0	0	65	891
Item-B Bucketed Allocation	0	20	0	0	30			892
Net Item-B Available	10	-10	10	10	-20			893
Backward Consumption	-10	+10	-10	-10	+20			894
Nat + B/W	0	0	0	0	0			895
Forward Consumption	0	0	0	0	0			896
Present Item-B availability	0	0	0	0	0			898
Cumulative Item-B availability	0	0	0	0	0	0	0	899

FIG. 8

Items		Day1	Day2	Day3	Day4	Day5	Day6	Day7	Day8
Family	Family Supply	20	20	20	20	20	20	20	20
	Family Bucketed allocation					(10)	40	35(15)	971
	Net Family Available					10	-20	-15	972
	Backward Consumption					-10	+10	0	973
	Net + B/W					0	-10	-15	974
	Forward Consumption					0	+10	15	975
	Present family availability					0	0	0	978
									980
Member-A	Item Supply -A	10	10	10	10	10			981
	Item-A demand	20	0	30	0	0	0	50	
	Item-A Bucketed Allocation	10	0	30	0	10			982
	Net Item-A Available	0	10	-20	10	0			983
	Backward Consumption	0	-10	10	0	0			984
	Net + B/W	0	0	-10	10	0			985
	Forward Consumption	0	0	10	-10	0			986
	Present Item-A availability	0	0	0	0	0			988
Member-B	Cumulative Item-A availability	0	0	0	0	0	0	0	989
	Item Supply -B	10	10	10	10	10			990
	Item-B demand	0	20	0	0	0	0	65	
	Item-B Bucketed Allocation	0	20	0	0	30			992
	Net Item-B Available	10	-10	10	10	-20			993
	Backward Consumption	-10	+10	-10	-10	+20			994
	Net + B/W	0	0	0	0	0			995
	Forward Consumption	0	0	0	0	0			996
Present Item-B availability		0	0	0	0	0			998
Cumulative Item-B availability		0	0	0	0	0	0	0	999

FIG. 9

The diagram illustrates a flow of units from 1000 down to 1051 for Member-A and Member-B. The flow is represented by a series of numbers: 1000, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065. Curved arrows indicate the flow: one arrow points from 1000 to 1051, and another points from 1051 to 1065.

Items		Day1	Day2	Day3	Day4	Day5	Day6	Day7	Day8
Family Supply	20	20	20	20	20	20	20	20	1070
Family Bucketed allocation						0	40	35(15)	1071
Net Family Available						20	-20	-15	1072
Family Backward Consumption					-20	20	0	0	1073
Net + B/W					0	0	0	-15	1074
Forward Consumption					0	0	0	15	1075
Present family availability					0	0	0	0	1078
Item Supply - A	10	10	10	10	10	10	10	10	1080
Item-A demand	20	0	0	0	0	0	50		1081
Item-A Bucketed Allocation	20	0	0	0	0	10			1082
Net Item-A Available	-10	10	10	10	10	0			1083
Member-A Backward Consumption	0	0	0	0	0	0			1084
Net + B/W	-10	10	10	10	10	0			1085
Forward Consumption	10	-10	0	0	0	0			1086
Present Item-A availability	0	0	10	10	0				1088
Cumulative Item-A availability	0	0	10	20	20	20	20	20	1089
Item Supply - B	10	10	10	10	10	10	10	10	1090
Item-B demand	0	20	0	0	0	0	65		1091
Item-B Bucketed Allocation	0	20	0	0	0	30			1092
Net Item-B Available	10	-10	10	10	10	-20			1093
Member-B Backward Consumption	-10	+10	-10	-10	+20				1094
Net + B/W	0	0	0	0	0	0			1095
Forward Consumption	0	0	0	0	0	0			1096
Present Item-B availability	0	0	0	0	0	0			1098
Cumulative Item-B availability	0	0	0	0	0	0	0	0	1099

FIG. 10

		1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165
Items		Day1	Day2	Day3	Day4	Day5	Day6	Day7	Day8							
Family	Family Supply	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	Family Bucketed allocation									0	0	0	0	0	0	0
	Net Family Available									20	20	-15	-15	-15	-15	-15
Member-A	Backward Consumption									0	-15	+15	+15	+15	+15	+15
	Net + B/W									20	5	0	0	0	0	0
	Forward Consumption									0	0	0	0	0	0	0
	Present family availability									20	5	0	0	0	0	0
	Item Supply - A	10	10	10	10	10	10	10	10							
Member-A	Item-A demand	20	0	0	0	0	0	0	0							
	Item-A Bucketed Allocation	20	0	0	0	0	0	0	0							
	Net Item-A Available	-10	10	10	10	10	10	10	10							
	Backward Consumption	0	0	0	0	0	0	0	0							
	Net + B/W	-10	10	10	10	10	10	10	10							
	Forward Consumption	10	-10	0	0	0	0	0	0							
	Present Item-A availability	0	0	10	10	10	10	10	10							
	Cumulative item-A availability	0	0	10	20	20	30	30	30							
	Item Supply - B	10	10	10	10	10	10	10	10							
Member-B	Item-B demand	0	20	0	0	0	0	0	0							
	Item-B Bucketed Allocation	0	20	0	0	0	0	0	0							
	Net Item-B Available	10	-10	10	10	10	10	10	10	-20						
	Backward Consumption	-10	+10	-10	-10	-10	+20	+20	+20							
	Net + B/W	0	0	0	0	0	0	0	0							
	Forward Consumption	0	0	0	0	0	0	0	0							
	Present Item-B availability	0	0	0	0	0	0	0	0							
	Cumulative item-B availability	0	0	0	0	0	0	0	0	0	20	25	25	25	25	25

FIG. 11